

**AMENDMENTS TO THE SPECIFICATION:**

**On page 1 after the title, please insert the following:**

--RELATED APPLICATION

The present application is based on, and claims priority from, French Application No. 02 03974, filed March 29, 2002, the disclosure of which is hereby incorporated by reference herein in its entirety.

FIELD OF THE INVENTION--

**On page 1 after line 6, please insert the following header:**

--BACKGROUND OF THE INVENTION --

**On page 3 after line 25, please insert the following header:**

--SUMMARY OF THE INVENTION --

**On page 4 after line 32, please enter the following header:**

--BRIEF DESCRIPTION OF THE DRAWING--

**On page 5 after line 18, please insert the following header:**

--DETAILED DESCRIPTION OF THE INVENTION --

Page 3, replace second full paragraph (lines 7-12) with the following paragraph:

In addition, this increase in the yield is greater if a multi-electrode or ~~«multistage»~~ multistage collector is used instead of a single depressed collector. Figure 3 shows such a traveling wave tube comprising a four-stage collector E1, E2, E3, E4. The function of the first stage E1 is to decelerate and collect the slowest electrons, that of the final stage E4, at the back of the collector, to decelerate and collect the fastest electrons.

Page 5, replace lines 1-18 with the following new paragraphs:

[[ -]] ~~figure 1; already described~~, Figure 1 is a diagram showing the principle of an amplifier comprising a microwave traveling wave tube ;

[[ -]] ~~figure 2; already described~~, Figure 2 shows a simplified diagram of a traveling wave tube (TWT) ;

[[ -]] ~~figure 3; already described~~, Figure 3 shows a TWT having a multi-electrode or « ~~multistage~~ » multistage collector ;

[[ -]] ~~figure 4; already described~~, Figure 4 shows a cross section in the electrode region of a four-stage TWT ;

[[ -]] ~~figure~~ Figure 5 is a diagram showing the principle of an amplifier according to the invention, that includes a TWT ;

[[ -]] ~~figures~~ Figures 6a, 6b and 6c are curves showing the variation in the output power  $P_s$  as a function of the current of the first electrode of a two-stage TWT ;

[[ -]] ~~figures~~ Figures 7a, 7b, 7c and 7d are curves showing the variation in the output power  $P_s$  as a function of the current of the first electrode of a four-stage TWT; and

[[ -]] ~~figure~~ Figure 8 shows a circuit for measuring the collector current of the amplifier of figure 5 according to the invention.